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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A color characteristic description apparatus for producing color characteristic data for use when supplied image is converted into output image data, comprising:

a characteristic point lookup table of color characteristic data, said color characteristic data being associated with and describing color characteristic characteristics of an input a inputting said supplied image first device and, said characteristic point lookup table to be developed into a multidimensional lookup table of greater data volume than the characteristic point lookup table in response to inputting of said supplied image, wherein said characteristic point lookup table is solely composed of only characteristic points which indicate the relationship between supplied image signals and output image signals which

wherein the characteristic points are points in which a function relating the supplied image signals with the output image data has a discontinuity in the slope such that the characteristic points are determined to be impossible to be

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accurately developed in a table development method process which

is performed when said lookup table is developed into said

multidimensional lookup table; and

wherein color characteristic data which is produced by said

characteristic description apparatus contains, in addition to

said lookup table, an identifier for identifying a table

development method which is to be employed when said

characteristic point lookup table is developed into the

multidimensional lookup table;

wherein said input device is one of a plurality of color

input devices including one of a scanner, digital camera, and a

monitor.

2. (Currently Amended) A color characteristic description

apparatus according to claim 1, wherein said characteristic

point lookup table composed of the characteristic points is

described such that fundamental colors composed of primary

colors of a color device having the same signal values serve as

the characteristic points.

(Canceled)

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4. (Currently Amended) A color characteristic description

apparatus according to claim 1, wherein color characteristic data

which is produced by said color characteristic description

apparatus contains, in addition to said characteristic point

lookup table, software for performing a the table development

process method.

5. (Currently Amended) A color characteristic description

apparatus according to claim 4, wherein color characteristic

data which is produced by said color characteristic description

apparatus further contains an identifier for identifying a the

table development method and software for converting data

developed into the table into an ICC profile.

6. (Withdrawn) A color characteristic description apparatus

for producing color characteristic data for use when supplied

image data is converted into output image data, comprising:

a multidimensional lookup table which is produced by said

color characteristic description apparatus;

wherein color characteristic data which is produced by said

color characteristic description apparatus incorporates data

obtained by compressing said multidimensional lookup table and

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an identifier for identifying a restoring method for restoring

the compressed multidimensional lookup table.

7. (Withdrawn) A color characteristic description apparatus

for producing color characteristic data for use when supplied

image data is converted into output image data, comprising:

a multidimensional lookup table which is produced by said

color characteristic description apparatus,

wherein color characteristic data which is produced by said

color characteristic description apparatus incorporates data

obtained by compressing said multidimensional lookup table and

software for restoring compressed data.

8. (Withdrawn) A color characteristic description apparatus

according to clam 7, wherein color characteristic data which is

produced by said color characteristic description apparatus

further incorporates an identifier for identifying a restoring

method for restoring compressed data and software for converting

the restored multidimensional lookup table into an ICC profile.

9. (Withdrawn) A color management apparatus for converting

supplied image data by using a lookup table of color

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characteristic data into output image data, said color management apparatus comprising:

a lookup table which is composed of characteristic points which are points indicating the relationship between supplied image data and output image data which are determined to be impossible to be interpolated when a process for converting image data is performed; and

image data converting means for converting supplied image data by using said lookup table composed of the characteristic points into output image data.

10. (Withdrawn) A color management apparatus according to claim 9, further comprising table development means for developing said lookup table into the multidimensional lookup table;

wherein said image data converting the means uses multidimensional lookup table developed by said table development means to convert supplied image data into output image data.

11. (Withdrawn) A color management apparatus according to claim 10, wherein said table development means develops said lookup table into said multidimensional lookup table in such a

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manner that all of characteristic points of said lookup table

composed of the characteristic points are contained.

12. (Withdrawn) A color management apparatus according to

claim 10, wherein said table development means develops said

lookup table into the multidimensional lookup table such that

data corresponding to grid points of said multidimensional

lookup table is composed of output data of said lookup table and

data of information of adjacent grid points for interpolating a

portion between grid points.

13. (Withdrawn) A color management apparatus according to

claim 10, wherein said multidimensional lookup table is a

compressed multidimensional lookup table formed by compressing

said multidimensional lookup table;

restoring means is provided which restores said compressed

multidimensional lookup table into said multidimensional lookup

table:

said image data converting means causes said restoring

means to restore said compressed multidimensional lookup table

and uses obtained multidimensional lookup table to convert

supplied image data into output image data.

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14. (Withdrawn) color management apparatus according to an claim 9, further comprising:

table recording means for recording said multidimensional lookup table developed by said table development means in a memory; and

updating means for operating said table development means and said table recording means when said lookup table composed of the characteristic points has been updated to update said multidimensional lookup table and rewrite the updated multidimensional lookup table on said memory, wherein

said image data converting means uses said multidimensional lookup table recorded in said memory to convert supplied image data into output image data.

15. (Withdrawn) An image converting apparatus comprising:

a color management apparatus incorporating image data which uses lookup table of color converging means а characteristic data produced by a characteristic description apparatus to convert supplied image data into output image data and which has a structure that said lookup table is composed of points which points indicating characteristic are relationship between supplied image data and output image data which are determined to be impossible to be interpolated when

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said image data converting means performs an image data

converting process; and

a storage portion for storing a plurality of color

characteristic data items having different color

characteristics;

wherein color characteristic data is selected in accordance

with the characteristic of image data and selected color

characteristic data is used by said color management apparatus

to convert supplied image data into output image data.

16. (Withdrawn) A color correction method structured such

that a multidimensional lookup table is used to convert a

supplied image signal into an output image signal, said color

correction method comprising the steps of:

producing a lookup table composed of characteristic points

which are points indicating the relationship between input color

image signals and output color image signals which are

determined to be impossible to be developed in a table

development process;

performing table development process such that said lookup

table composed of the characteristic points is developed into a

multidimensional lookup table; and

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converting supplied image signal into an output image signal by using said multidimensional lookup table obtained by developing said lookup table composed of the characteristic points.

17. (New) A method of producing a color characteristic description for an input device such that input image data from the input device may be converted into output image data, the method comprising:

building a characteristic point lookup table associated with and describing color characteristics of the input device, wherein the characteristic point lookup table is solely composed of characteristic points indicating the desired relationship between the input image data and the output image data wherein the characteristic points are points in which a function relating the input image data with the output image data has a discontinuity such that the characteristic points cannot be accurately developed in a table development method which is later performed;

said building step building a characteristic point look-up table such that the characteristic point lookup table may be developed into a multidimensional look-up table of greater data

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volume than the characteristic point lookup table utilizing a table development method; and

generating color characteristic data including the characteristic point lookup table and an identifier that identifies the table development method which is to be employed when the characteristic point lookup table is developed into the multidimensional look-up table.

18. (New) A color characteristic apparatus according to claim 1, wherein said first device is one of a plurality of color devices including a scanner, digital camera, or monitor.